Tr Buchanan
Lehrer.

DIAL 733-8377

AREA CODE 414

HARRIS and ASSOCIATES, INC.

CONSULTING ENGINEERS AND LAND SURVEYORS

2718 N. Meade St.

APPLETON, WISCONSIN 54911

March 12, 1976

RECEIVED DNR
MAR 15 1976
Lake Mich. Dist.

Dept. of Natural Resources
Environmental Protection Section
P. O. Box 3600
Green Bay, Wisconsin 54303

Attention: Mr. Gary Kulibert

Subject: Preliminary submittal, Lehrer Landfill Site, Town of Buchanan, Outagamie County, Wisconsin.

Gentlemen:

As per our discussion at the meeting held in your Oshkosh office on March 1, 1975, we are sending herewith, in triplicate, drawings and information on the preliminary investigation of the subject landfill site.

We are also forwarding herewith, three copies of Soil Testing Services preliminary results of their initial geohydrological investigation on the subject site.

It is requested that your office review this preliminary submission and comment on same so that work can proceed on the plans and specifications of the Lehrer Landfill Site.

Sincerely,

HARRIS & ASSOCIATES, INC.

Theodore J Harris

Theodore J. Harris

TJH/dr
Copy: S.T.S.
Encl. (2)
DWGS. U.S.C.



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LEHRER LANDFILL SITE
Kaukauna, Wis.

LOCATION OF LANDFILL SITE: The Lehrer Landfill site as proposed herein has an operating area of approximately 20 acres and is located in Section 21 and Section 22, Township 21 North, Range 18 East, Town of Buchanan, Outagamie County, Wisconsin, adjacent to and immediately south of the city limits of Kaukauna and east of State Trunk Highway 55.

PRELIMINARY ENGINEERING DESIGN: The 20 acre landfill site will be divided into nine separate cells generally as shown on the preliminary drawings accompanying this report. Only one cell will be used for the placement of refuse at one time with the material from the excavation of the next cell being used for the daily and final cover of the operating cell. Cells numbered 1, 2 and 3 are approximately 180 feet by 480 feet (2 acres each) with a capacity of 72,000 to 75,000 cubic yards. Cells numbered 4,5,6,8 and 9 are 180 feet by 380 feet (1.6 acres each) with a capacity of 63,300 to 64,600 cubic yards. Cell number 7 is 160 feet by 350 feet (1.3 acre) with a capacity of 52,900 cubic yards. The total capacity of all cells is 592,800 cubic yards exclusive of volume required for 12 inches of topsoil and three feet of final clay cover. Ample cover material is available from the cells to supply the



required daily and final cover. A surplus of material will be available to provide additional cover to the previously filled areas, stockpile for future use after settlement or to remove from the site for disposal. All topsoil will be stripped and stockpiled for final placement on top of the three feet of final compacted clay cover.

Berms three to four feet high will be constructed around the perimeter of the site to minimize accumulation of surface water within the cells. The berms will direct the water around the site to natural water courses. Temporary berms will be constructed within the operating cells to accumulate and separate clear surface water from any leachate which might form during the day to day operation. The leachate will be collected near the base of the refuse and will be pumped into the compacted lift of solid waste. Each cell will be constructed so that the bottom will have a minimum of one percent slope towards one unfilled corner of the operating cell to facilitate drainage within the cell. Necessary observation wells will be installed through the waste to the low point of each cell to note any formation of leachate in the filled cells.

The existing clay screen separating the landfill site from the residential area to the north will be maintained during operation of the landfill site. The screen will serve as a visual, noise and litter control. Additional litter control will be provided for by the installation of permanent or temporary fences as required.

The final grades for the landfill site are shown on an accompanying drawing. The final grades included three feet of compacted clay as final cover and 12 inches of topsoil. The final grades have been established to facilitate surface runoff to the east and to the south and allow proper final grades to permit the site to be used for agricultural purposes after abandonment as a landfill site.

SOLID WASTES ANTICIPATED:

SOURCE	TYPE OF WASTE	QUANTITY OF WASTE
Town of Harrison	Residential & Farm	8 cu. yds./day
Town of Woodville	Residential & Farm	8 cu. yds./day
Kimberly-Clark, Kimberly; Wisconsin Tissue, Menasha; Neenah Paper, Neenah	Paper Mill Sludge (from treatment plants - 50% to 80% water)	300 cu. yds./day
Paper Mill and Industrial	Miscellaneous Wastes	700 cu. yds./day
City of Kaukauna	General Residential	80 cu. yds./day
Village of Kimberly	General Residential	70 cu. yds./day
Village of Combined Locks	General Residential	60 cu. yds./day

TOTAL	=	1226 cu. yds./day
COMPACTED ($2\frac{1}{2}$ to 1)	=	490 cu. yds./day

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ANTICIPATED LIFE OF SITE:

CELL NO.	REFUSE CAPACITY * (cu. yds.)	LIFE OF CELL days	years**
1.	57,600	118	0.45
2.	58,880	120	0.46
3.	60,160	123	0.47
4.	50,640	103	0.40
5.	50,640	103	0.40
6.	50,640	103	0.40
7.	42,320	86	0.33
8.	51,680	105	0.40
9.	51,680	105	0.40
	TOTAL =	966	3.71

* Assumed as 80% of capacity of cell.

** Based on 260 operating days per year.

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